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For: PORTABLE TERMINAL CAPABLE
OF INVOKING PROGRAM BY SIGN
COMMAND AND PROGRAM INVOKING
METHOD THEREFOR

Commissioner for Patents
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TRANSMITTAL OF PRIORITY

Sir:

Submitted herewith is a Certified English language translation of Korean Patent Application No.: 2003/18434 filed with the Korean Intellectual Property Office on March 23, 2005, from which the above-identified application claims priority.

Respectfully submitted,

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Margaret Leone

Translation of Priority Document

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Application Number : Korean Patent Application No. 2003-18434

Date of Application : March 25, 2003

Applicant(s) : Samsung Electronics Co., Ltd.

April 30, 2003

COMMISSIONER

[ABSTRACT OF THE DISCLOSURE]

[ABSTRACT]

5

A portable terminal capable of invoking a program by a gesture command and a program invoking method therefore. In the portable terminal, a storage stores programs and symbols linked to the programs. A display displays the operation state of a program when the program is invoked. A user interface senses an external contact. A controller detects a figure represented by a signal sensed at the user interface according to a path in which the external contact is made and, in the presence of a symbol matching the figure, invokes a program corresponding to the symbol from the storage.

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[SPECIFICATION]

[TITLE OF THE INVENTION]

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PORTABLE TERMINAL CAPABLE OF INVOKING PROGRAM BY
GESTURE COMMAND AND PROGRAM INVOKING METHOD
THEREFOR

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[BRIEF DESCRIPTION OF THE DRAWINGS]

FIG. 1 illustrates a typical folder-type terminal;

FIG. 2 is a plan view of a function key portion illustrated in FIG. 1;

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FIG. 3 illustrates an exemplary text-symbol table listing symbols mapped
to characters;

FIG. 4 is a block diagram of a portable terminal capable of selecting a
program using a symbol representing a gesture command according to a
preferred embodiment of the present invention;

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FIG. 5 illustrates a folder-type portable terminal configured as illustrated
in FIG. 4;

FIG. 6 illustrates an exemplary program running table for the portable
terminal illustrated in FIG. 4;

25

FIG. 7A illustrates user drawing of a symbol representing a gesture
command in a user interface;

FIG. 7B illustrates program invocation by the gesture command illustrated
in FIG. 7A; and

FIG. 8 is a flowchart illustrating a program invoking method using the
portable terminal according to the preferred embodiment of the present
invention.

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[DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT]

[OBJECT OF THE INVENTION]

[RELATED FIELD AND PRIOR ART OF THE INVENTION]

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The present invention relates generally to a portable terminal and a
program invoking method therefor, and in particular, to a portable terminal

capable of invoking a program using a hot key and a program invoking method therefor.

5 A portable terminal is a portable device that provides wireless communication service to a user through radio communication with a base station (BS). This portable terminal becomes popular irrespective of age and place all over the globe. It is now a necessity in daily living. The portable terminal includes a transmitter/receiver, a data input/output device, and an antenna, for exchanging voice or data.

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FIG. 1 illustrates a typical folder-type terminal. Referring to FIG. 1, the folder-type terminal has two housings rotatably connected by a hinge device. The two housings are a main housing 10 and a folder 20. The folder-type terminal is comprised of the main housing 10, the folder 20, the hinge device for connecting
15 the main housing 10 to the folder 20 such that the folder 20 can rotate to an opened or closed position with respect to the main housing 10, and a lens housing 30 rotatably mounted to the hinge device.

The main housing 10 has a keypad with a plurality of keys and a
20 microphone 14 on its front surface 10a. The keypad is divided into an alphanumeric key portion 16 having a plurality of numeric keys for entering digits or characters and conducting a conversation with the other party, and a function key portion 18 having select keys for invoking stored programs and setting environment.

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The folder 20 includes a speaker 21 and a display, i.e., a liquid crystal display (LCD) module 22 on its bottom surface 20. The lens housing 30 is comprised of a camera lens 31 and a charge coupled device (CCD; not shown). The lens housing 30 is disposed coaxially with the hinge device and thus rotates
30 upon the hinge axis of the hinge device.

FIG. 2 is a plan view of the function key portion 18 illustrated in FIG. 1. The function key portion 18 includes setting keys 18a, a MENU key 18c, an INTERNET key 18d, and an OK key 18e. The setting keys 18a include select
35 keys for rapid invocation of a program and environment setting for the program.

The select keys cofunction as scroll keys for moving a pointer in four directions to select an intended character after a program is invoked. With these setting keys 18a, a program is easily and rapidly selected.

5 The MENU key 18c is used to display the icons of whole programs on the LCD module 22, for settings of the programs and registration of a new program. The INTERNET key 18d selects a stored Internet browser and runs a wireless Internet. The OK key 18e is used to update data.

10 The portable terminal provides hot keys to rapidly and easily invoke some programs. The use of a hot key allows invocation of a corresponding application program with one or two key strokes without a complicated menu selection. The Palm PDA (Personal Digital Assistant), which is a great commercial success, offers four hot keys to run programs more user-friendly. Now, all PDAs provide
15 four hot keys. If more hot keys are available, the portable terminal will be used more conveniently. However, the number of hot keys is limited by the restricted size of the portable terminal.

20 U.S. Patent No. 5,596,656 issued to Xerox discloses a technique of selecting and displaying a text using symbols mapped to characters.

~~FIG. 3 illustrates an example of a text-symbol table listing symbols mapped~~
to characters. Referring to FIG. 3, to display an intended character, a symbol corresponding to the character is drawn in a predetermined portion of a user
25 interface in the terminal. Despite the advantage of simple character display, this method is confined to characters and thus hot keys are required in software or hardware to run programs. Moreover, a user must memorize all the symbols for the characters to use the above text selection method.

30 Traditionally, symbols are drawn on the user interface with a pen-type device with a sharp tip in order to enter a text. This implies that the portable terminal must be equipped with this input device to use the functionality.

[SUBSTANTIAL MATTER OF THE INVENTION]

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It is, therefore, an object of the present invention to provide a portable terminal capable of invoking a stored program more rapidly and more easily and a program invoking method therefor.

5 It is another object of the present invention to provide a portable terminal capable of easily selecting a program according to a set program selection function without checking a menu change on a display and a program invoking method therefor.

10 The above objects are achieved by a portable terminal capable of invoking a program by a gesture command and a program invoking method therefore. In the portable terminal, a storage stores programs and symbols linked to the programs. A display displays the operation state of a program when the program is invoked. A user interface senses an external contact. A controller detects a
15 figure represented by a signal sensed at the user interface according to a path in which the external contact is made and, in the presence of a symbol matching the figure, invokes a program corresponding to the symbol from the storage.

 It is preferred that the symbols are mapped to the appellations of the
20 programs in a program running table. The storage can have a plurality of program running tables and a different program can be invoked using the same symbol in a different program running table. The symbols can be user-defined.

 The user interface is one of a touch pad, a touch screen, and a membrane
25 coated on keys for key input, for sensing the external contact.

 It is preferred that the display displays the operation state of a program invoked by the controller, and the controller controls the display to display a symbol linked to the program for a predetermined time and then invokes the
30 program. Upon receipt of a gesture command represented by a symbol linked to a different program from the user interface during an ongoing program, the controller stores information about the operation state of the ongoing program and data generated from the ongoing program in the storage and runs the different program. The controller determines whether the figure falls within a

predetermined matching range of the symbol to check whether the figure matches the symbol.

In a program invoking method for the portable terminal, it is determined whether an external contact has been sensed (a), a figure represented by a sensed signal is detected according to a path in which the external contact is made, upon sensing the external contact (b), the figure is compared with symbols linked to stored programs (c), and a program corresponding to a symbol is invoked from the storage if the symbol matches the figure (d).

It is preferred that the symbols are mapped to the appellations of the programs in a program running table. The symbols are listed in a plurality of program running tables and can be user-defined.

It is also preferred that upon receipt of a gesture command represented by a symbol linked to a different program from the user interface during the ongoing program in the step of (d), information about the operation state of the ongoing program and data generated from the ongoing program are stored in the storage and the different program is invoked. It is determined whether the figure falls within a predetermined matching range of the symbol in the step of (c).

[CONSTRUCTION AND OPERATION OF THE INVENTION]

A preferred embodiment of the present invention will be described herein below with reference to the accompanying drawings. In the following description, well-known functions or constructions are not described in detail since they would obscure the invention in unnecessary detail.

FIG. 4 is a block diagram of a portable terminal capable of selecting a program using a symbol representing a gesture command according to a preferred embodiment of the present invention.

Referring to FIG. 4, a radio frequency (RF) module 123 is responsible for wireless communication in the portable terminal. The RF module 123 includes an RF transmitter for upconverting the frequency of a transmission signal and

amplifying it and an RF receiver for amplifying a received signal with low noise and downconverting its frequency. A data processor 120 can be constituted of a MODEM for coding and modulating a signal received from the RF module 123 and a CODEC for demodulating and decoding a signal to be transmitted to the
5 RF module 123. The CODEC has a data CODEC for processing packet data and an audio CODEC for processing an audio signal. An audio processor 125 reproduces an audio signal received from the audio CODEC or transmits an audio signal generated from a microphone to the audio CODEC.

10 A camera module 140 photographs an object captured through a lens. The camera module 140 is comprised of a camera sensor for converting the optical signal to an electrical signal, and a signal processor for digitizing an analog video signal received from the camera sensor. Here, the camera sensor can be a CCD sensor and the signal processor can be a digital signal processor (DSP).

15 A video processor 150 generates video data from the video signal received from the camera 140 to be displayed. The video processor 150 processes the video signal on a frame basis and outputs frame video data according to the resolution and size of an LCD module 160. The video processor 150 includes a
20 video CODEC for compressing the frame video data in a predetermined method and recovering compressed frame video data to original frame video data. A JPEG CODEC, MPEG4 CODEC, or Wavelet CODEC can be used as the video CODEC. It is assumed herein that the video processor 150 is provided with an on screen display (OSD) functionality and can output video data and OSD data in
25 combination under the control of a controller 110.

The LCD module 160 displays the video data received from the video processor 150 and user data received from the controller 110 on an LCD. The LCD module 160 may include an LCD controller, a memory for storing video
30 data, and the LCD. If the LCD module 160 is implemented as a touch screen, it can serve as an input device. The present invention is also applicable in the case where the LCD module 160 serves as an input and output device like a touch screen.

A storage 130 includes a program memory and a data memory. The program memory stores programs 132 for controlling the whole operation of the portable terminal and the data memory stores data 136 generated during execution of the programs 132. In accordance with the present invention, the storage 130 has a
5 program running table 134 that lists symbols preset to run the programs 132 mapped to the appellations of the programs 132.

A keypad 170 has a plurality of keys for entering characters and digits according to an input mode. Upon input of a key in the keypad 170, the
10 controller 110 displays a character or digit corresponding to the key on the LCD module 160.

A user interface 200 provides an interface for entering a program running command. The user interface 200 can be a touch pad, a touch screen, etc. Here, it
15 is assumed that the touch pad is used as the user interface. The user interface 200 senses an external signal and feeds the signal to the controller 110.

The controller 110 provides overall control to the portable terminal. The data processor 120 can be integrated into the controller 110. This controller 110
20 interprets a command corresponding to a sensed signal from the touch pad and invokes a corresponding program from the storage 130. It is preferred that the controller 110 detects a figure represented by the sensed signal. The controller 110 then compares the figure with the shapes of symbols in the program running table. If there is any symbol matching the figure, the controller 110 detects the
25 appellation of a program corresponding to the symbol from the program running table 134 and invokes the program among the stored programs 132. The invocation and running state of the program is visually notified on the LCD module 160.

30 Preferably, the controller 110 displays the symbol on the LCD module 160 for a predetermined time when the program is invoked by the symbol or by general menu selection. This improves the user's memory about hot key symbols for running the programs and increases the utilization of the hot key symbols.

Upon receipt of a sensed signal corresponding to another hot key symbol during running the program (hereinafter, a first program), the controller 110 stores information about the running state of the first program and data generated from the first program in the storage 130 and then invokes a second program
5 corresponding to the sensed signal.

Upon receipt of a sensed signal corresponding to the hot key symbol for the first program during the second program in progress, the controller 110 stores information about the running state of the second program and data generated
10 from the second program in the storage 130 and then resumes the first program in such a state as it was suspended according to the stored running state information, displaying the data generated from the first program.

It is preferred that the controller 10 invoke a plurality of application
15 programs by respective corresponding gesture commands, while storing information about the operation state of an ongoing program and data generated during execution of the program in the storage 130, so that the stored program is resumed in the operation state by a gesture command or a general menu selection.

20 The touch pad as the user interface 200 senses an external touch (contact) signal and functions as a select key for environment setting and moving a cursor. Thus, the touch pad can be used to invoke a program by a hot key symbol, set an environment, and move the cursor. The touch pad operates differently depending
25 on a contact mode or a select mode.

The configuration illustrated in FIG. 4 is applicable to any terminal capable of invoking a program using symbols, such as a cellular phone, a digital phone, a PDA, a hand-held phone, and a laptop computer. The present invention is also
30 applicable to all types of portable terminals including a bar type, a flip type, and a folder type. For clarity of description, the present invention is described in the context of a folder-type terminal.

FIG. 5 illustrates a folder-type terminal having the configuration of FIG. 4.
35 Referring to FIG. 5, a folder 400 is rotatably connected to a main housing 300 so

that the folder 400 is opened or closed with respect to the main housing 300 in the portable terminal. The main housing 300 includes the function key portion 170 and the user interface 200 illustrated in FIG. 4. The folder 400 has the LCD module 160 illustrated in FIG. 4. A camera module 500 is further provided in the
5 portable terminal.

A program is invoked by a symbol corresponding to the program, entered through the user interface 200 and its state is displayed on the LCD module 160. The portable terminal displays the symbol on the LCD module 160 for a
10 predetermined time in accordance with the present invention to allow the user to memorize the hot key for the program.

FIG. 6 illustrates an example of the program running table 134 illustrated in FIG. 4. Referring to FIG. 6, the appellations of the programs 132 stored in the
15 storage 130 illustrated in FIG. 4 are mapped to their respective symbols in the program running table 134. o indicates a starting point to write a symbol from. A line is drawn from the starting point to represent a symbol. Upon sensing drawing of a line through a touch on the user interface 200, that is, upon receipt of a gesture command, the controller 100 of FIG. 4 compares a figure
20 represented by the gesture command with the symbols in the program running table.

Symbols reserved for user definition are for programs 132 for which hot key symbols have not been set yet.

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FIG. 7A illustrates use drawing of a symbol representing a gesture command in the user interface 200. The gesture command is for MEMO according to the program running table 134 illustrated in FIG. 6. It is preferred that the controller 110, sensing a figure represented by the gesture command,
30 determines whether the figure falls within a predetermined matching range in comparing the figure with the symbols in the program running table.

Upon sensing the gesture command indicating MEMO, the controller 110 compares a figure represented by the gesture command with the symbols of the
35 program running table 134. If the figure falls within the predetermined matching

range, the controller 110 considers that the gesture command indicates MEMO. The controller 100 then invokes the MEMO program from the storage 130.

5 In accordance with the present invention, the user interface 200 includes a MENU key 200b for displaying details of the invoked program, and an OK key 200c for updating information for a selected menu. Those keys 200b and 200c cofunction as scroll keys, with keys 200a and 200d, to move a cursor after the program is invoked.

10 FIG. 7B illustrates a program invoked by the gesture command illustrated in FIG. 7A. Referring to FIG. 7B, the operation state of the MEMO program is displayed on the LCD module 160. When the MEMO program is initially invoked, its appellation is displayed along with part of existing notes on the display module 160.

15 To allow the user to view details about the MEMO program, MENU is alerted for the user to press the MENU key 200b.

20 Thus, a program linked to a symbol set for the program is more easily, more rapidly invoked by a gesture command represented by the symbol.

FIG. 8 is a flowchart illustrating a program invoking method using the portable terminal according to the present invention. Referring to FIG. 8, the controller 110 determines whether a gesture command has been received from the user interface 200 in step S100. If the gesture command has not been received, the controller 110 performs a normal operation in step S105.

30 Upon receipt of the gesture command, the controller 110 detects a figure represented by the gesture command in step S110. Preferably, the controller 110 stores the figure temporarily.

In step S120, the controller 110 compares the figure with the symbols in the program running table 134 stored in the storage 130. Preferably, the controller 110 performs the matching step S120 after a predetermined object that wrote the gesture command is detached from the user interface 200. If a key is selected

from the main housing 300 before the object is detached from the user interface 200, the controller 110 preferably deletes the figure from the storage 130 and performs an operation corresponding to the selected key.

5 In step S130, the controller 110 determines whether there is any symbol matching the figure. If no symbol matches the figure, the controller 110 performs the normal operation in step S105.

10 On the other hand, if a symbol matches the figure, the controller 110 invokes a program linked to the symbol in step S140.

 This program invoking method by a gesture command facilitates program selection and operation.

15 While it has been described that a single program running table 134 is present in the storage 130, it can be further contemplated that a plurality of program running tables 134 are formed and a program running table having a symbol representing a gesture command for a particular program is selected among the program running tables. Therefore, a different program can be
20 operated using the same symbol according to a program running table.

 While symbols representing programs are preset in the embodiment of the present invention, they can be defined as a user wants. This attracts more interest in running programs using hot key symbols and prevents unauthorized use of the
25 portable terminal.

 Instead of using a touch pad or touch screen for generating a gesture command, a membrane can be coated on the keys of an existing portable terminal in order to realize both the traditional key function and the gesture
30 command-based program operation function. In this case, the controller 110 recognizes a gesture command or a key input signal depending on pressure applied on the membrane.

 In the case of a portable terminal coated with a membrane, upon receipt of a
35 gesture command stroked on the membrane in step S100, the controller 110

stores the gesture command in the storage 136. In steps 110, 120 and 130, the controller 136 determines whether a symbol matching the gesture command exists in the program running table 134. In the absence of the symbol, the controller 110 deletes the gesture command from the storage and proceeds to
5 step S105.

On the other hand, if a key input signal and a gesture command are simultaneously received, that is, the key input signal is generated before the gesture command is completely written, the controller 110 performs an operation
10 corresponding to the key input signal before processing the gesture command.

[EFFECT OF THE INVENTION]

In accordance with the present invention as described above, symbols are
15 linked to programs and a program is invoked by a gesture command represented by a symbol corresponding to the program. As a result, program selection and operation becomes easy and simple and there is no need for checking menu transitions when selecting a program.

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[PATENT CLAIM(S)]

1. A portable terminal comprising:
5 a storage for storing programs and symbols linked to the programs;
a display for displaying the operation state of a program when the
program is invoked;
a user interface for sensing an external contact; and
a controller for detecting a figure represented by a signal sensed at the
10 user interface according to a path in which the external contact is made and, in
the presence of a symbol matching the figure, invoking a program corresponding
to the symbol from the storage.
2. The portable terminal of claim 1, wherein the symbols are mapped to
15 the appellations of the programs in a program running table.
3. The portable terminal of claim 2, wherein the storage has a plurality
of program running tables.
- 20 4. The portable terminal of claim 3, wherein the symbols listed in the
program running tables can be user-defined.
5. The portable terminal of claim 1, wherein the user interface is a
touch pad.
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6. The portable terminal of claim 1, wherein the user interface is a
touch screen.
7. The portable terminal of claim 1, wherein the user interface is a
30 membrane coated on keys for key input, for sensing the external contact.
8. The portable terminal of claim 1, wherein the display displays the
operation state of a program invoked by the controller, and the controller
controls the display to display a symbol linked to the program for a
35 predetermined time and then invokes the program.

9. The portable terminal of claim 1, wherein upon receipt of a gesture command represented by a symbol linked to a different program from the user interface during an ongoing program, the controller stores information about the operation state of the ongoing program and data generated from the ongoing program in the storage and runs the different program.

10. The portable terminal of claim 1, wherein the controller determines whether the figure falls within a predetermined matching range of the symbol to check whether the figure matches the symbol.

11. A program invoking method in a portable terminal, comprising the steps of:

- (a) determining whether an external contact has been sensed;
- (b) detecting a figure represented by a sensed signal upon sensing the external contact according to a path in which the external contact is made;
- (c) comparing the figure with symbols linked to stored programs; and
- (d) invoking a program corresponding to a symbol from the storage if the symbol matches the figure.

12. The program invoking method of claim 11, wherein the symbols are mapped to the appellations of the programs in a program running table.

13. The program invoking method of claim 12, wherein the symbols are listed in a plurality of program running tables.

14. The program invoking method of claim 13, wherein the symbols listed in the program running tables can be user-defined.

15. The program invoking method of claim 11, further comprising the step of, upon receipt of a gesture command represented by a symbol linked to a different program from the user interface during the ongoing program in the step of (d), storing information about the operation state of the ongoing program and data generated from the ongoing program in the storage and invoking the different program.

16. The program invoking method of claim 11, wherein it is determined whether the figure falls within a predetermined matching range of the symbol in the step of (c).

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17. The program invoking method of claim 11, further comprising the steps of storing the figure after the step of (d), and deleting the figure if no symbols match the figure.



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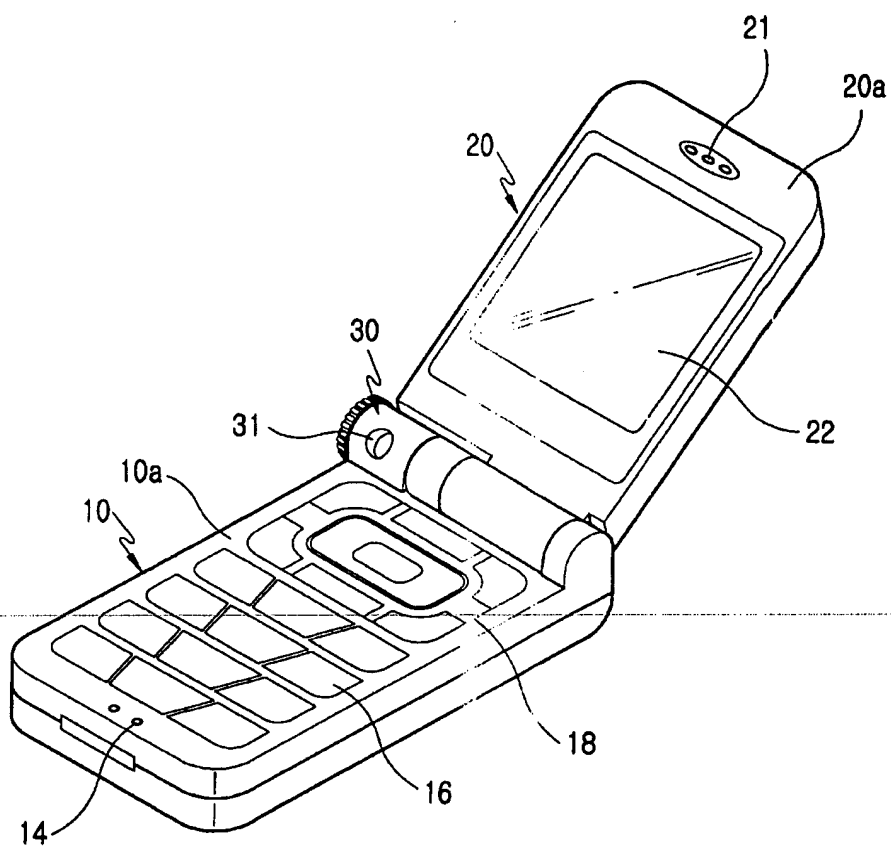


FIG.1

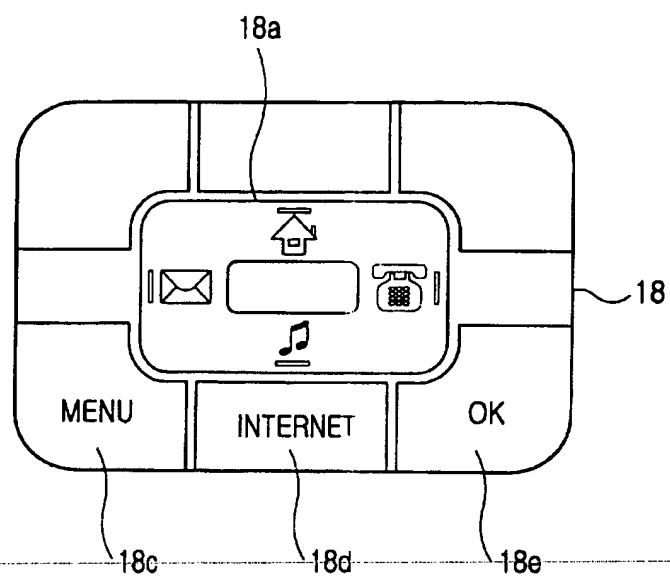


FIG.2

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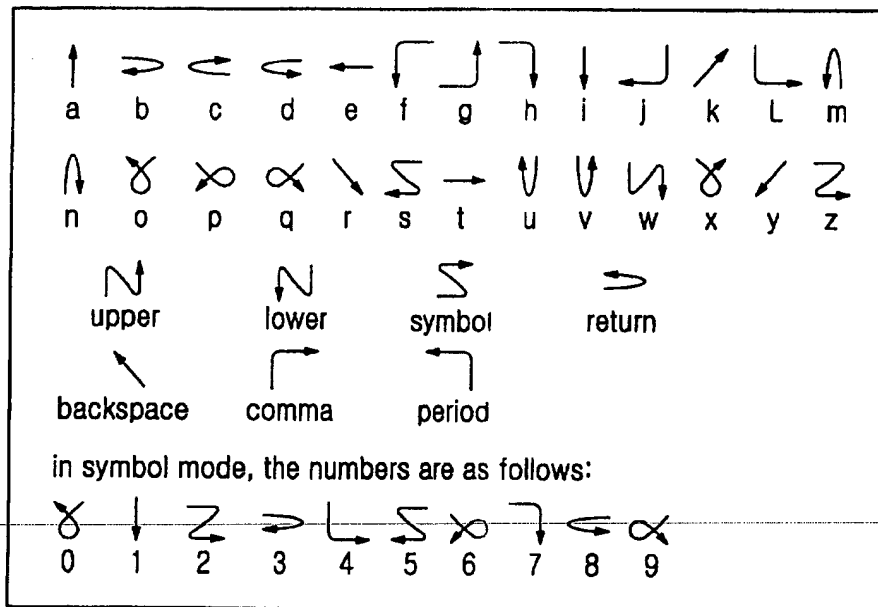


FIG.3

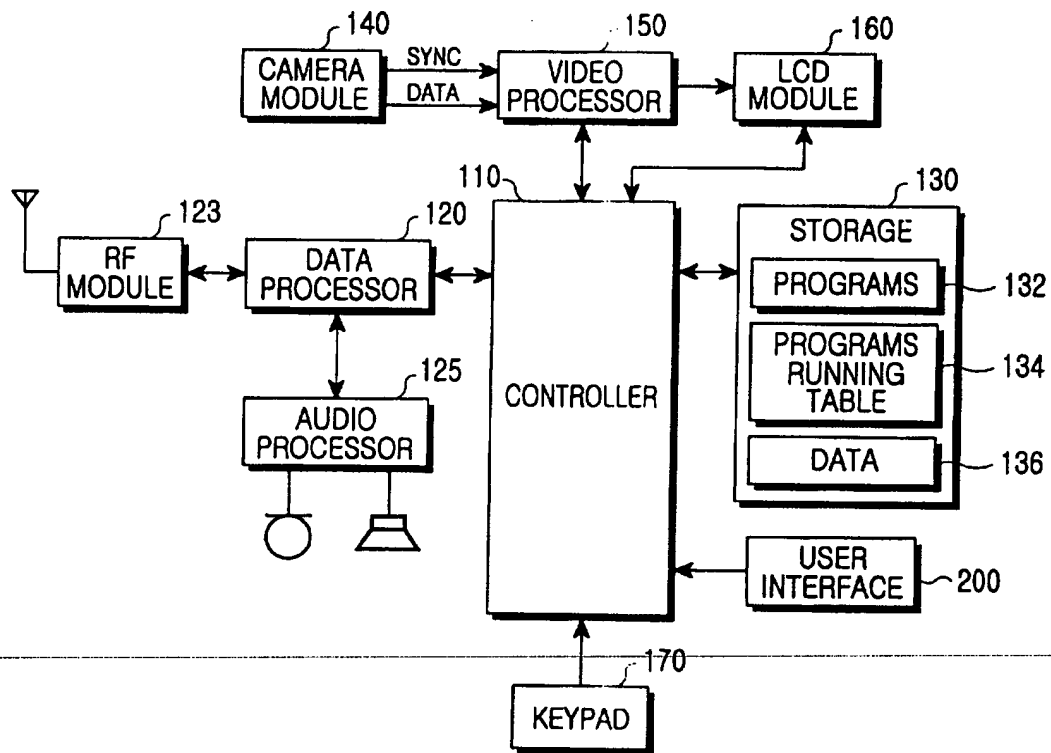


FIG.4

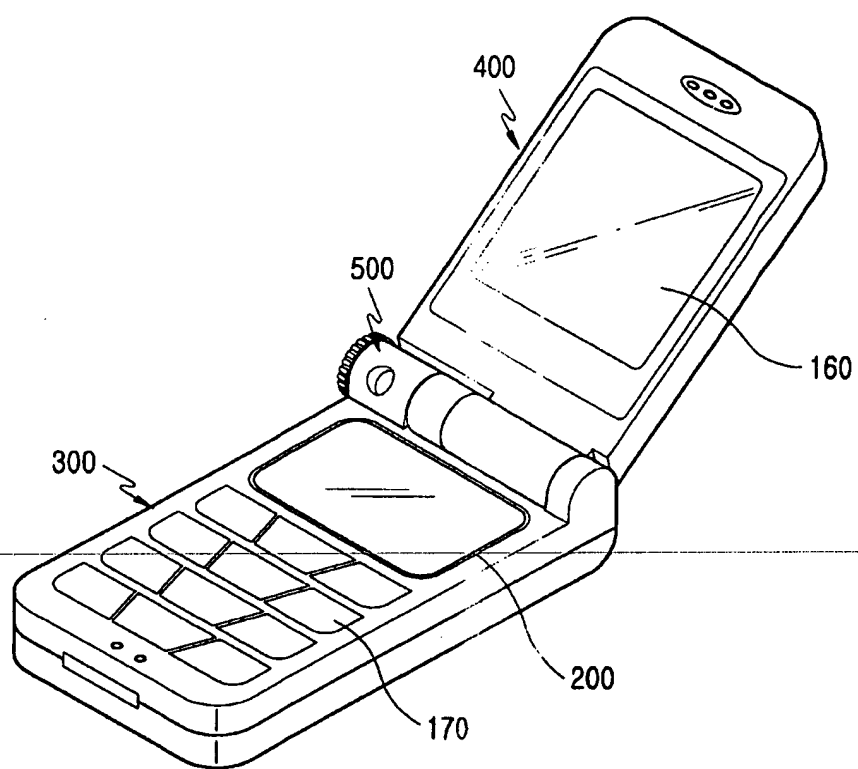


FIG. 5

134


















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|  ▼ CAMERA |  ▼ DIRECTORY |  ▼ INTERNET |  ▼ SEARCH |
|  ▼ BACK |  ▼ FORWARD |  ▼ HOME |  ▼ MESSAGE |
|  ▼ SCHEDULER |  ▼ PHONE |  ▼ VOICE MEMO |  ▼ MEMO |
|  ▼ PAGE DOWN |  ▼ USER-DEFINED |  ▼ USER-DEFINED |  ▼ USER-DEFINED |

FIG.6

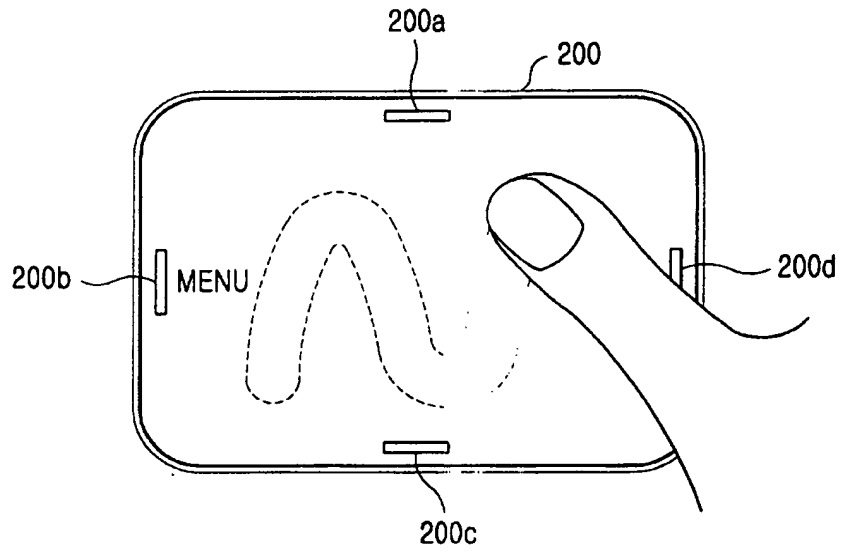


FIG. 7A

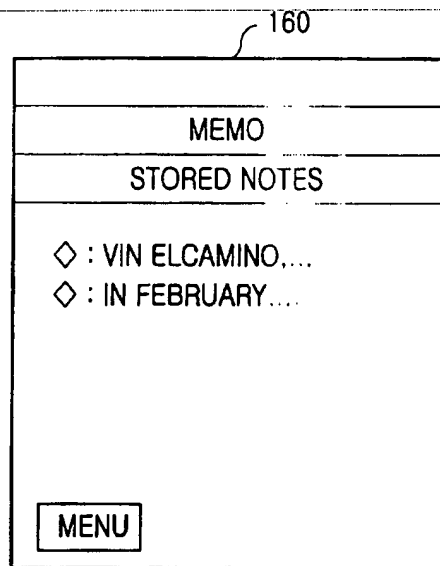


FIG. 7B

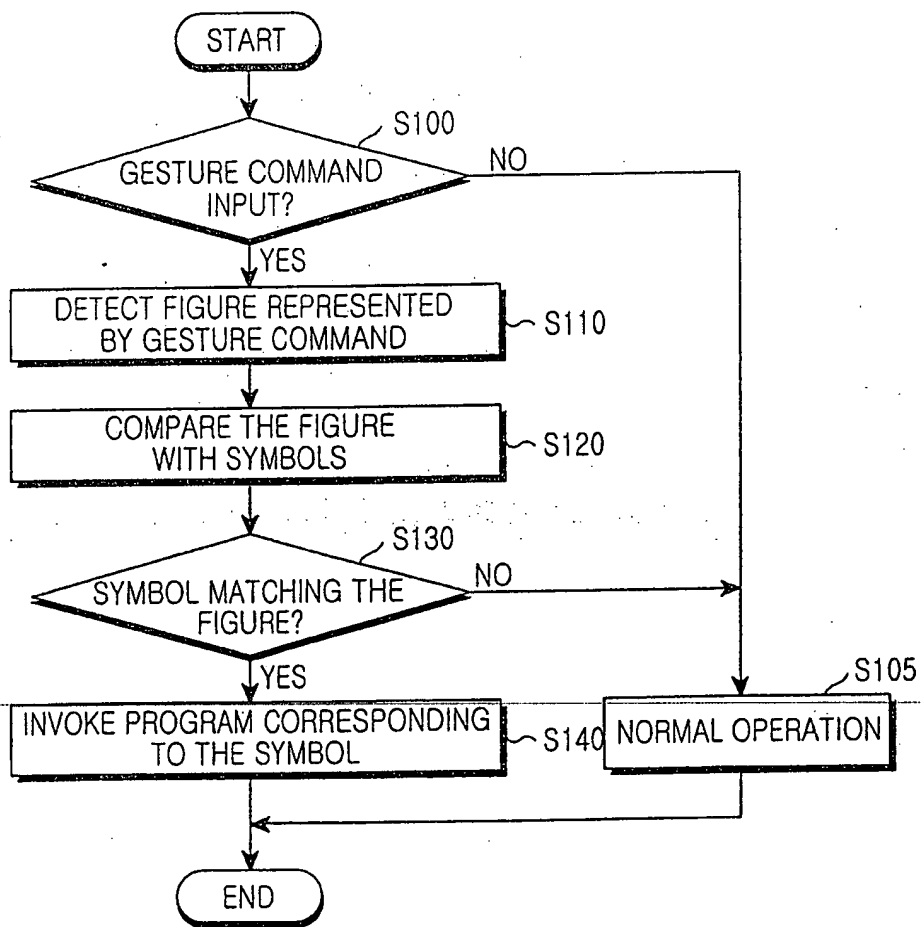


FIG.8

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